

CART (1-39), Human, Rat

Cat. No.:	HY-P3691
Molecular Formula:	C ₁₈₈ H ₃₀₃ N ₅₇ O ₆₃
Molecular Weight:	4369.76
Sequence Shortening:	{Glp}-EDAELQPRALDIYSVDDASHEKELPRRQLRAPGAVLQ
Target:	Neuropeptide Y Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	CART (1-39), Human, Rat is a neuropeptide consisting of 1-39 residues of the CART peptide. CART (1-39), Human, Rat is a rat satiety factor with potent appetite-suppressing activity and is closely associated with leptin and neuropeptide Y. CART (1-39), Human, Rat inhibits both normal and starvation-induced feeding. CART (1-39), Human, Rat can induce anxiety and stress-related behavior ^[1] .		
In Vitro	CART (1-39), Human, Rat (100 nM) increases intracellular calcium concentrations in rat cortical neurons ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo	CART (1-39), Human, Rat (0.05-2 nM; Intrathecal injection; Sprague-Dawley rats) can not cause a significant change of blood pressure or heart rate, but potentiates the pressor effects of glutamate injected intrathecally in anesthetized rats ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	Adult male Sprague-Dawley rats ^[1]	
	Dosage:	0.05, 0.5, and 2 nM	
	Administration:	Intrathecal injection	
	Result:	Potentiated glutamate-induced tachycardiac effects at a higher dose of in some of the rats.	

REFERENCES

[1]. Dun SL, et, al. Expression and activity of cocaine- and amphetamine-regulated transcript peptide(1-39) in the rat. Regul Pept. 2007 Apr 5;140(1-2):47-54.

Caution: Product has not been fully validated for medical applications. For research use only.

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